

REMARKS

The Examiner objected to the drawings.

The Examiner rejected claims 1-3, 6-8, 10-15, 18-20 and 22-24 under 35 U.S.C. §102(e) as allegedly being anticipated by Bisanti et al. (US 6,600,351).

The Examiner rejected claims 4-5, 9, 16-17 and 21 under 35 U.S.C. §103(a) as allegedly being unpatentable over Bisanti et al. (US 6,600,351) in view of Williams et al. (US 6,377,091).

Applicants respectfully traverse the drawing objections, and §102 and §103 rejections, with the following arguments.

In the Drawings

Please enter the replacement sheet for FIG. 2. Replacement sheet 2, which includes FIG. 2, replaces original sheet 2 including FIG. 2.

Drawing Objections

The Examiner objected to the drawings.

The Examiner alleges that “ The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the recitation "adjustable gain" recited in claims 4-5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered ”.

In reponse, Applicants have added adjustable gain control 7 to the main charge pump circuit 5 as described in the specification in paragraph 19, lines 14-16 and adjustable gain control 9 to the main charge pump circuit 5 as described in the specification in paragraph 19, lines 16-17. Additionally, the specification has been amended to include the reference numbers added to FIG. 2. No new matter has been added.

35 U.S.C. §102

Claims rejected 1-3, 6-8, 10-15, 18-20 and 22-24 under 35 U.S.C. §102(e) as allegedly being anticipated by Bisanti et al. (US 6,600,351).

The Examiner alleges that “Bisanti et al discloses in Figure 5 a PLL circuit comprising: -
a first charge pump circuit (508);
- a second charge pump circuit (510);
a loop filter having a first capacitor (56pF);
- a resistor (60K) connected to a second capacitor (150pF);
wherein the second charge pump coupled in parallel with the second capacitor (150pF) to function as a current source so that it collectively vary an effective capacitance value of the second capacitor (150pF)”.

As to claims 1 and 13 as amended, Applicants respectfully contend that Bisanti does not anticipate claims 1 and 13, because Bisanti does not teach each and every feature of claims 1 and 13. For example, Bisanti does not teach the feature of “a first charge pump circuit, a second charge pump circuit, and a loop filter circuit within the phase lock loop circuit, the first charge pump circuit **comprising a first adjustable gain control**, the second charge pump circuit **comprising a second adjustable gain control**” (emphasis added). Bisanti does not teach a first charge pump circuit **comprising a first adjustable gain control** and a second charge pump circuit **comprising a second adjustable gain control** as taught by Applicant’s claims 1 and 13. In contrast, Bisanti teaches a PLL with charge pump circuits that do **not** comprise adjustable gain controls. Applicants note that the “adjustable gain” limitation from rejected claims 4 and 5 (canceled) over Bisanti in view of Williams (US 6,377,091) has been incorporated into claims 1

and 13. Applicants contend that the charge pump circuits of claims 1 and 13 **comprise** adjustable gain controls. Applicants further contend that Williams does not teach or suggest charge pump circuits **comprising** adjustable gain controls. In contrast Williams teaches a bias compensation circuit 322 **external** to a charge pump. Therefore, Applicants contend that the charge pump of Williams does **not** comprise an adjustable gain control. Based on the preceding arguments, Applicant respectfully maintain that Basanti does not anticipate claims 1 and 13 and that claims 1 and 13 are in condition for allowance. Since claims 2, 3, and 6-12 depend from claim 1 and claims 14-24 depend from claim 13, Applicants contend that claims 2, 3, 6-12 and 14-24 are likewise in condition for allowance.

35 U.S.C. §103

The Examiner rejected claims 4-5, 9, 16-17 and 21 under 35 U.S.C. §103(a) as allegedly being unpatentable over Bisanti et al. (US 6,600,351) in view of Williams et al. (US 6,377,091).

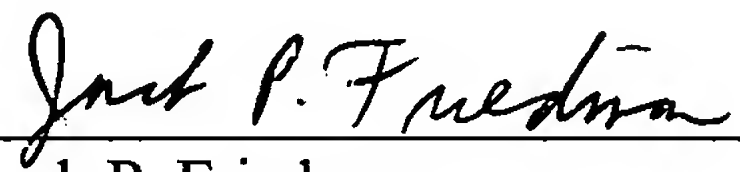
In response, Applicants contend that since claims 2,3, 6-12 depend from claim 1 and claims 14-24 depend from claim 13, which Applicants have argued *supra* to not be anticipated by Bisanti under 35 U.S.C. §102(e), Applicants maintain that claims 2,3, 6-12 and 14-24 are likewise not unpatentable over Bisanti in view of Williams under 35 U.S.C. §103(a).

CONCLUSION

Based on the preceding arguments, Applicant respectfully believe that all pending claims and the entire application meet the acceptance criteria for allowance and therefore request favorable action. If the Examiner believes that anything further would be helpful to place the application in better condition for allowance, Applicant invites the Examiner to contact Applicants' representative at the telephone number listed below. The Director is hereby authorized to charge and/or credit Deposit Account No. 09-0456.

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